



264974be.app
SEQUENCE LISTING

<110> CHOO, YEN
KLUG, AARON
ISALAN, MARK

<120> NUCLEIC ACID BINDING POLYPEPTIDE LIBRARY

<130> 71278/264974/BET

<140> 09/424,482

<141> 2000-02-29

<150> 09/424,482

<151> 1999-11-23

<150> PCT/GB98/01510

<151> 1998-05-26

<150> GB 9710809.6

<151> 1997-05-23

<160> 114

<170> PatentIn version 2.1

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 1          5          10          15
Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa
 20          25          30

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2-3 residues

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Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Leu Xaa Xaa His Xaa Xaa Xaa His
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Thr Gly Glu Lys
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Thr Gly Glu Lys Pro
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<210> 8

<211> 26

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structure sequence

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Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly
20 25

<210> 9

<211> 29

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Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro
20 25

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Met Ala Glu Glu Lys Pro
1 5

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9

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 LIB-B Zinc finger

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 20 25 30
 Gly Gln Lys Pro
 35

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Gln | Cys | Arg | Ile | Cys | Met | Arg | Asn | Phe | Ser | Arg | Ser | Asp | Asp | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Xaa | His | Ile | Arg | Thr | His | Thr | Gly | Glu | Lys | Pro |
| | | | 20 | | | | | 25 | | | |

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<211> 28

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<222> (12)

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<400> 18

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ala | Cys | Asp | Ile | Cys | Gly | Arg | Lys | Phe | Ala | Xaa | Ser | Xaa | Asp | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | His | Thr | Lys | Ile | His | Leu | Arg | Gln | Lys | Asp |
| | | | 20 | | | | | 25 | | | |

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finger 3

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ala | Cys | Asp | Ile | Cys | Gly | Arg | Lys | Phe | Ala | Xaa | Xaa | Xaa | Xaa | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | His | Thr | Lys | Ile | His | Leu | Arg | Gln | Lys | Asp |
| | | | 20 | | | | 25 | | | | |

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| Arg | Leu | Glu | Tyr |
| 1 | | | |

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|-----|-----|-----|-----|
| Arg | Ser | Glu | Asp |
| 1 | | | |

<210> 22

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<400> 22

Arg His Thr His

1

<210> 23

<211> 4

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<400> 23

Arg Ser Ser Glu

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<210> 24

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<400> 24

Arg Ser Ser Ala

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<210> 25

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Gln Val Thr Thr

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Gln Ser Gly Asp
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<400> 27
Gln Leu Ala Thr
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Gln Asp Ala His
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<210> 29
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<400> 29

Gln Arg Ala Ser
1

<210> 30

<211> 4

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<400> 30

Gln Ser Thr Ser
1

<210> 31

<211> 4

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<223> Description of Artificial Sequence: Zinc finger
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Ser Ser Gly Asp
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<210> 32

<211> 4

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 32
Ser Ala Ser Ala
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<210> 33
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Asn Ser Gly Asp
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Leu Val Gln Asn
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<210> 36

<211> 4
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peptide

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Ser Arg His Ser
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<210> 48
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Thr Arg Tyr Ser

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 Arg Ala Gln Asn
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Thr Ser Arg Asp

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<210> 54

<211> 4

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Gln Arg Gly Ala

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<210> 55

<211> 4

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peptide

<400> 55

Gln Ser Thr Thr

1

<210> 56

<211> 4

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peptide

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<400> 56
Thr Ser Ser Ser
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<210> 57
<211> 4
<212> PRT
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<220>
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peptide

<400> 57
Ser Ser Ser Thr
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<210> 58
<211> 4
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peptide

<400> 58
Thr Ile Ser Asn
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<210> 59
<211> 4
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peptide

<400> 59
Thr Ser Thr Ala
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<210> 60

<211> 4
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Thr Ser Ser Ile
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peptide

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Thr Ser Asn Ser
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<210> 63
<211> 4
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peptide

<400> 63
Gly Ser Asn Asp
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<210> 64
<211> 4
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Thr Ala Gly Ser
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<400> 66
Thr Thr Ser Ser
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<210> 67
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peptide

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Thr Ser Ser Ala
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peptide

<400> 68
Leu Ser Thr Thr
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<210> 69
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Leu Ser Ser Thr
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peptide

<400> 71
His Ser Lys Ser
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<400> 72
His Arg Gln Asn
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<210> 73
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<400> 73
Asp Arg Ala Asn

1

<210> 74
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<400> 74
Asp Arg Ala Asn
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<210> 75
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<400> 75
Arg Ser Gln Asp
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<210> 76
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<400> 76
Gln Val Gly His
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<210> 77
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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 77

Gln Leu Ala Thr
1

<210> 78

<211> 4

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peptide

<400> 78

Thr Ser Gln Ala
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<210> 79

<211> 4

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peptide

<400> 79

Thr Ser Ala Ser
1

<210> 80

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Leu Ala Gln Thr
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<220>
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peptide

<400> 81
Arg Ser Arg Asp
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<210> 82
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<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 82
Arg Leu Arg Asp
1

<210> 83
<211> 4
<212> PRT
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<220>
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peptide

<400> 83
His Leu Ala Thr
1

<210> 84

<211> 4
<212> PRT
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<220>
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peptide

<400> 84
His Leu Thr Thr
1

<210> 85
<211> 4
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peptide

<400> 85
Val Gly His His
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<400> 86
His Pro Ala Thr
1

<210> 87
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peptide

<400> 87

His Pro Ala Asn

1

<210> 88

<211> 4

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peptide

<400> 88

His His Ser Asn

1

<210> 89

<211> 4

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peptide

<400> 89

Asp Ser Arg Ala

1

<210> 90

<211> 4

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peptide

<400> 90

Lys Ser Ser Asp

1

<210> 91
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<220>
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peptide

<400> 91
Ser Ser Ser Asp
1

<210> 92
<211> 4
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<220>
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peptide

<400> 92
Arg Ser His Asp
1

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peptide

<400> 93
Arg Ser Ser Tyr
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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 94

Arg Ser Ser Ser
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<210> 95

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peptide

<400> 95

Arg Lys Thr Asp
1

<210> 96

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<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 96

Gln Ile Ser Thr
1

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<211> 4

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